

REMARKS

Claims 1 to 6, 8, 10 to 12, 14, 16 and 20 were rejected under 35 U.S.C. §103(a) as being unpatentable over Takeuchi et al. (US 4,694,749) in view of Richard Geoffrey Warren (UK Patent GB 2 298 985). Claim 9 was rejected under 35 U.S.C. §103(a) as being unpatentable over Takeuchi et al. (US 4,694,749) in view of Richard Geoffrey Warren (UK Patent GB 2 298 985) as applied to claims 1 to 6, 8, 10 to 12, 14, and 16, and further in view of Banke (US 4,872,407). Claims 15 and 17 were rejected under 35 U.S.C. §103(a) as being unpatentable over Takeuchi et al. (US 4,694,749) in view of Richard Geoffrey Warren (UK Patent GB 2 298 985) as applied to claims 1 to 6, 8, 10 to 12, 14, and 16, and further in view of Chretienat et al. (US 6,167,806). Claim 19 was rejected under 35 U.S.C. §103(a) as being unpatentable over Takeuchi et al. (US 4,694,749) in view of Richard Geoffrey Warren (UK Patent GB 2 298 985) as applied to claims 1 to 6, 8, 10 to 12, 14, and 16, and further in view of Huston (US 5,816,165).

Reconsideration of the application based on the following is respectfully requested.

Rejections under 35 U.S.C. §103(a)

Claims 1 to 6, 8, 10 to 12, 14, 16 and 20 were rejected under 35 U.S.C. §103(a) as being unpatentable over Takeuchi et al. (US 4,694,749) in view of Richard Geoffrey Warren (UK Patent GB 2 298 985). Claim 9 was rejected under 35 U.S.C. §103(a) as being unpatentable over Takeuchi et al. (US 4,694,749) in view of Richard Geoffrey Warren (UK Patent GB 2 298 985) as applied to claims 1 to 6, 8, 10 to 12, 14, and 16, and further in view of Banke (US 4,872,407). Claims 15 and 17 were rejected under 35 U.S.C. §103(a) as being unpatentable over Takeuchi et al. (US 4,694,749) in view of Richard Geoffrey Warren (UK Patent GB 2 298 985) as applied to claims 1 to 6, 8, 10 to 12, 14, and 16, and further in view of Chretienat et al. (US 6,167,806). Claim 19 was rejected under 35 U.S.C. §103(a) as being unpatentable over Takeuchi et al. (US 4,694,749) in view of Richard Geoffrey Warren (UK Patent GB 2 298 985) as applied to claims 1 to 6, 8, 10 to 12, 14, and 16, and further in view of Huston (US 5,816,165).

Takeuchi discloses in the Background of the Invention a conventional presetting apparatus which has a plurality of sensors for detecting register marks formed on a printing plate

mounted on each plate cylinder. Each sensor detects the phase deviations of the plate cylinders to carry out a registering operation.

The data for the presetting operation is stored in a computer (col.1., lines 53 to 55).

Warren discloses a printing plate with bar coded data.

Claim 1 recites a method for presetting motor phase in a web printing press comprising the steps of:

determining a desired preset phase for a motor;

subsequent to the determining step, providing a mark on a first printing form using plate or image making equipment, the plate or image making equipment providing the mark as a function of the determined desired preset phase for a motor driving the first printing form during printing;

reading the mark using a sensor, the sensor having a sensor output; and

presetting the phase of the motor as a function of the sensor output.

Takeuchi's described prior art device clearly uses a computer to store desired preset information relative to a zero point of the cylinders, for example that cylinder 1 should be preset at 15 degrees from a zero point and cylinder 2 at 30 degrees from a zero point. The sensors then detect marks that are at known positions at each of the printing plates, for example at 10 degrees from a zero point. Thus, for example, the computer via the sensor detects the mark on cylinder 1 at 10 degrees and then permits the cylinder 1 to rotate another 5 degrees to preset cylinder 1 at 15 degrees, and detects the mark on cylinder 2 at 10 degrees and permits the cylinder 2 to rotate another 20 degrees at 30 degrees. This is the standard conventional presetting apparatus known in the art and described by Takeuchi. During printing, the cylinders can then be kept at these preset angles. See col. 2, lines 49 to 65.

Takeuchi thus does not teach or disclose "the plate or image making equipment providing the mark as a function of the determined desired preset phase for a motor driving the first printing form during printing." The marks in Takeuchi are independent of the determined desired preset phase, since the computer in Takeuchi clearly stores data for the presetting operations and then uses the fixed or known position of the marks on the plates to determine the preset angle. The position or data contained in the marks thus is not a function of the determined desired preset phase provided by the plate or image making equipment, but is rather a constant or known quantity.

Moreover, since Takeuchi requires such a fixed or know quantity and uses the computer for stored presents, there is no reason or desire to replace the mark of Takeuchi with anything taught by Warren. It is not clear what the asserted “enhancements for set up” are, or how a better quality printing image would result from anything that Warren teaches.

With respect to claim 14, Takeuchi does not disclose “a controller for determining the first preset motor phase information as a function of the output of the first sensor and determining the desired preset motor phase information and providing the desired preset motor phase information to the plate or image making equipment.” As with the arguments with respect to claim 1, Takeuchi does not provide preset motor phase information to the plate or image making equipment and there is no reason to do so.

In view of the foregoing withdrawal of the rejections to claims 1 and 14 and their dependent claims is respectfully requested.

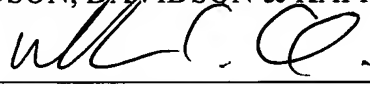
Furthermore, with respect to dependent claim 4, this claim recites the method as recited in claim 2 wherein the mark includes information related to the desired preset phase. This is not the case in Takeuchi where the mark is independent of the desired preset phase.

CONCLUSION

The present application is respectfully submitted as being in condition for allowance and applicants respectfully request such action.

Respectfully submitted,

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